

## WEST Search History

DATE: Tuesday, December 30, 2003

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L11	l1 and (nucleic acid or gene or dna or cdna) adj20 encoding adj5 reverse transcriptase	29
<input type="checkbox"/>	L10	L1 and ((method of making reverse transcriptase) or (process of making reverse transcriptase) or (method of producing reverse transcriptase) or (process of producing reverse transcriptase))	0
<input type="checkbox"/>	L9	L1 and ((method same reverse transcriptase) or (process same reverse transcriptase))	1355
	<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L8	l5 or L7	480
<input type="checkbox"/>	L7	L6 and l2	396
<input type="checkbox"/>	L6	(435/69.1)![CCLS]	8718
<input type="checkbox"/>	L5	L4 and l2	101
<input type="checkbox"/>	L4	435/194	1542
<input type="checkbox"/>	L3	(435/194, 69.1)![CCLS]	0
<input type="checkbox"/>	L2	avian myeloblastosis adj5 reverse transcriptase or amv adj1 reverse transcriptase or amv adj1 rt	1813
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L1	avian myeloblastosis adj5 reverse transcriptase or amv adj1 reverse transcriptase or amv adj1 rt	2557

END OF SEARCH HISTORY

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**Search Results - Record(s) 1 through 20 of 29 returned.**

☐ 1. Document ID: US 20030232326 A1

L11: Entry 1 of 29

File: PGPB

Dec 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030232326  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030232326 A1

TITLE: Metapneumovirus strains and their use in vaccine formulations and as vectors for expression of antigenic sequences

PUBLICATION-DATE: December 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fouchier, Ronaldus Adrianus Maria	Rotterdam	CA	NL	
Van Den Hoogen, Bernadetta Gerarda	Rotterdam	CA	NL	
Osterhaus, Albertus Dominicus Marcellinus Erasmus	Bunnik		NL	
Haller, Aurelia	Redwood City		US	
Tang, Roderick	San Carlos		US	

US-CL-CURRENT: 435/5; 435/235.1, 435/325, 435/456, 435/69.3, 530/350, 530/388.3, 536/23.72, 702/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw. D
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☐ 2. Document ID: US 20030198944 A1

L11: Entry 2 of 29

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030198944  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030198944 A1

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gerard, Gary F.	Frederick	MD	US	
Smith, Michael D.	Rockville	MD	US	
Chatterjee, Deb K.	North Potomac	MD	US	

US-CL-CURRENT: 435/5; 435/199, 435/6, 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Ds
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☐ 3. Document ID: US 20030186270 A1

L11: Entry 3 of 29

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030186270

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030186270 A1

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gerard, Gary F.	Frederick	MD	US	
Smith, Michael D.	Rockville	MD	US	
Chatterjee, Deb K.	North Potomac	MD	US	

US-CL-CURRENT: 435/6; 435/199, 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Ds
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☐ 4. Document ID: US 20030165859 A1

L11: Entry 4 of 29

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030165859

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030165859 A1

TITLE: Primers and methods for the detection and discrimination of nucleic acids

PUBLICATION-DATE: September 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nazarenko, Irina	Gaithersburg	MD	US	
Rashtchian, Ayoub	Gaithersburg	MD	US	
Solus, Joseph	Madison	AL	US	
Pires, Richard M.	Germantown	MD	US	

Darfler, Marlene	Derwood	MD	US
Gebeyehu, Gulilat	Potomac	MD	US
Astatke, Mekbib	Germantown	MD	US

US-CL-CURRENT: 435/6; 435/91.2, 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D
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☐ 5. Document ID: US 20030148352 A1

L11: Entry 5 of 29

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148352  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030148352 A1

TITLE: Intracellular generation of single-stranded DNA

PUBLICATION-DATE: August 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glazer, Peter M.	Guilford	CT	US	

US-CL-CURRENT: 435/6; 435/320.1, 435/455

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D
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☐ 6. Document ID: US 20030039664 A1

L11: Entry 6 of 29

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030039664  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030039664 A1

TITLE: ISOLATED NUCLEOTIDE SEQUENCES ASSOCIATED WITH MULTIPLE SCLEROSIS OR RHEUMATOID ARTHRITIS AND A PROCESS OF DETECTING

PUBLICATION-DATE: February 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
PERRON, HERVE	LYON		FR	
BESEME, FREDERIC	VILLEFONTAINE		FR	
BEDIN, FREDERIC	LYON		FR	
PARANHOS-BACCALA, GLAUCIA	LYON		FR	
KOMURIAN-PRADEL, FLORENCE	SAINT CYR AU MONT D'OR		FR	
JOLIVET-REYNAUD, COLETTE	BRON		FR	
MANDRAND, BERNARD	VILLEURBANNE		FR	

GARSON, JEREMY ALEXANDER      GUILDFORD      GB  
TUKE, PHILIP WILLIAM      LONDON      GB

US-CL-CURRENT: 424/204.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 20030032086 A1

L11: Entry 7 of 29

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032086  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030032086 A1

TITLE: COMPOSITIONS AND METHODS FOR REVERSE TRANSCRIPTION OF NUCLEIC ACID MOLECULES

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GERARD, GARY F.	FREDERICK	MD	US	
SMITH, MICHAEL D.	ROCKVILLE	MD	US	
CHATTERJEE, DEB K.	NORTH POTOMAC	MD	US	

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 435/6, 435/68.1, 435/91.2,  
530/350, 536/23.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 20030003452 A1

L11: Entry 8 of 29

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030003452  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030003452 A1

TITLE: High fidelity reverse transcriptases and uses thereof

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Potter, Robert Jason	Frederick	MD	US	
Rosenthal, Kim	Laytonsville	MD	US	

US-CL-CURRENT: 435/6; 435/199, 435/320.1, 435/325, 435/69.1, 435/91.2, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 20020094522 A1

L11: Entry 9 of 29

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020094522

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020094522 A1

TITLE: Means and methods for monitoring non-nucleoside reverse transcriptase inhibitor antiretroviral therapy and guiding therapeutic decisions in the treatment of HIV/AIDS

PUBLICATION-DATE: July 18, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Whitcomb, Jeannette	San Mateo	CA	US	
Parkin, Neil T.	Belmont	CA	US	
Heilek-Snyder, Gabrielle	Mountain View	CA	US	

US-CL-CURRENT: 435/5; 435/6, 530/350, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 10. Document ID: US 20020090618 A1

L11: Entry 10 of 29

File: PGPB

Jul 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020090618

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020090618 A1

TITLE: Thermostable reverse transcriptases and uses thereof

PUBLICATION-DATE: July 11, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Smith, Michael D.	Rockville	MD	US	
Potter, Robert Jason	Frederick	MD	US	
Dhariwal, Gulshan	Potomac	MD	US	
Gerard, Gary F.	Frederick	MD	US	
Rosenthal, Kim	Laytonsville	MD	US	

US-CL-CURRENT: 435/6; 435/199, 435/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 11. Document ID: US 20020081581 A1

L11: Entry 11 of 29

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081581  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020081581 A1

TITLE: COMPOSITIONS AND METHODS FOR REVERSE TRANSCRIPTION OF NUCLEIC ACID MOLECULES  
PUBLICATION-DATE: June 27, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GERARD, GARY F.	FREDERICK	MD	US	
SMITH, MICHAEL D.	ROCKVILLE	MD	US	
CHATTERJEE, DEB K.	NORTH POTOMAC	MD	US	

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 12. Document ID: US 20020037500 A1

L11: Entry 12 of 29

File: PGPB

Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020037500  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020037500 A1

TITLE: Means and methods for monitoring antiretroviral therapy and guiding therapeutic decisions in the treatment of HIV/AIDS

PUBLICATION-DATE: March 28, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Whitcomb, Jeannette	San Mateo	CA	US	

US-CL-CURRENT: 435/5; 435/320.1, 435/6, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 13. Document ID: US 20020028447 A1

L11: Entry 13 of 29

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028447  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020028447 A1

TITLE: cDNA synthesis improvements

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Li, Wu Bo	North Potomac	MD	US	
Jessee, Joel A	Mt Airy	MD	US	
Gruber, Christian E	Frederick	MD	US	

US-CL-CURRENT: 435/6; 435/15, 435/5, 435/91.1, 435/91.2, 530/324, 530/351

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 14. Document ID: US 6653081 B2

L11: Entry 14 of 29

File: USPT

Nov 25, 2003

US-PAT-NO: 6653081

DOCUMENT-IDENTIFIER: US 6653081 B2

TITLE: Methods for monitoring antiretroviral therapy and guiding therapeutic decision in the treatment of HIV/AIDS

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Whitcomb; Jeannette	San Mateo	CA		

US-CL-CURRENT: 435/6; 424/188.1, 435/235.1, 435/238, 435/4, 435/441, 435/442, 435/5, 435/69.1, 435/8, 435/91.1, 435/91.2

ABSTRACT:

This invention relates to antiviral drug susceptibility and resistance tests to be used in identifying effective drug regimens for the treatment of human immunodeficiency virus (HIV) infection and acquired immunodeficiency syndrome (AIDS) and further relates to the means and methods of monitoring the clinical progression of HIV infection and its response to antiretroviral therapy, particularly nucleoside reverse transcriptase inhibitor therapy using phenotypic susceptibility assays or genotypic assays.

12 Claims, 21 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 15. Document ID: US 6630333 B1



L11: Entry 15 of 29

File: USPT

Oct 7, 2003

US-PAT-NO: 6630333

DOCUMENT-IDENTIFIER: US 6630333 B1

TITLE: Substantially pure reverse transcriptases and methods of production thereof

DATE-ISSUED: October 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hughes, Jr.; A. John	Germantown	MD		

US-CL-CURRENT: 435/194

## ABSTRACT:

The present invention provides substantially pure reverse transcriptases, which are preferably substantially free from contamination with nucleic acids. The invention also provides methods for the production of these enzymes, and kits comprising these enzymes which may be used in synthesizing, amplifying or sequencing nucleic acid molecules including through the use of the polymerase chain reaction, particularly RT-PCR.

18 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. De
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☐ 16. Document ID: US 6610522 B1

L11: Entry 16 of 29

File: USPT

Aug 26, 2003

US-PAT-NO: 6610522

DOCUMENT-IDENTIFIER: US 6610522 B1

TITLE: Cloned genes encoding reverse transcriptase lacking RNase H activity

DATE-ISSUED: August 26, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kotewicz; Michael Leslie	Columbia	MD		
Gerard; Gary Floyd	Frederick	MD		

US-CL-CURRENT: 435/194; 435/252.3, 435/252.33, 435/320.1, 435/471, 435/69.1, 435/91.1, 435/91.2, 536/23.2

## ABSTRACT:

The invention relates to a gene which encodes reverse transcriptase having DNA polymerase activity and substantially no RNase H activity. The invention also

relates to vectors containing the gene and hosts transformed with the vectors of the invention. The invention also relates to a method of producing reverse transcriptase having DNA polymerase activity and substantially no RNase H activity by expressing the reverse transcriptase genes of the present invention in a host. The invention also relates to a method of producing cDNA from mRNA using the reverse transcriptase of the invention. The invention also relates to a kit for the preparation of cDNA from mRNA comprising the reverse transcriptase of the invention.

98 Claims, 9 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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☐ 17. Document ID: US 6593120 B1

L11: Entry 17 of 29

File: USPT

Jul 15, 2003

US-PAT-NO: 6593120  
DOCUMENT-IDENTIFIER: US 6593120 B1

TITLE: Recombinant DNA encoding a reverse transcriptase derived from moloney murine leukemia virus

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Riggs; Michael G.	San Diego	CA		
Sorensen; Matthew	Irvine	CA		

US-CL-CURRENT: 435/194; 435/252.3, 435/252.33, 435/320.1, 435/325, 435/69.1,  
536/23.1, 536/23.2

ABSTRACT:

A recombinant plasmid for expression of Moloney Murine Leukemia Virus (MMLV)-derived reverse transcriptase in E. coli cells deficient in the expression of RNase activity, a method for purification of the recombinant enzyme, and a purified recombinant reverse transcriptase for suitable use in cDNA and nucleic acid amplification procedures are disclosed.

10 Claims, 22 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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☐ 18. Document ID: US 6589768 B1

L11: Entry 18 of 29

File: USPT

Jul 8, 2003

US-PAT-NO: 6589768

DOCUMENT-IDENTIFIER: US 6589768 B1

TITLE: Cloned genes encoding reverse transcriptase lacking RNase H activity

DATE-ISSUED: July 8, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kotewicz; Michael Leslie	Columbia	MD		
Gerard; Gary Floyd	Frederick	MD		

US-CL-CURRENT: 435/194; 435/252.3, 435/320.1, 435/471, 435/91.1, 435/91.2

## ABSTRACT:

The invention relates to a gene which encodes reverse transcriptase having DNA polymerase activity and substantially no RNase H activity. The invention also relates to vectors containing the gene and hosts transformed with the vectors of the invention. The invention also relates to a method of producing reverse transcriptase having DNA polymerase activity and substantially no RNase H activity by expressing the reverse transcriptase genes of the present invention in a host. The invention also relates to a method of producing cDNA from mRNA using the reverse transcriptase of the invention. The invention also relates to a kit for the preparation of cDNA from mRNA comprising the reverse transcriptase of the invention.

196 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	FIGS	Draw. De
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☐ 19. Document ID: US 6582703 B2

L11: Entry 19 of 29

File: USPT

Jun 24, 2003

US-PAT-NO: 6582703

DOCUMENT-IDENTIFIER: US 6582703 B2

TITLE: Isolated nucleotide sequences associated with multiple sclerosis or rheumatoid arthritis and a process of detecting

DATE-ISSUED: June 24, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perron; Herve	Lyons			FR
Beseme; Frederic	Villefontaine			FR
Bedin; Frederic	Lyons			FR

Paranhos-Baccala; Glaucia	Lyons	FR
Komurian-Pradel; Florence	Saint Cyr au Mont d'Or	FR
Jolivet-Reynaud; Colette	Bron	FR
Mandrand; Bernard	Villeurbanne	FR

US-CL-CURRENT: 424/204.1; 424/185.1, 424/187.1, 435/5, 435/6, 435/69.1, 530/350,  
536/23.72, 536/24.3, 536/24.32

## ABSTRACT:

The invention provides viral material and nucleotide fragments associated with multiple sclerosis and/or rheumatoid arthritis for use in methods of diagnosis, prophylaxis, and therapy.

5 Claims, 75 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 73

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 20. Document ID: US 6518019 B2

L11: Entry 20 of 29

File: USPT

Feb 11, 2003

US-PAT-NO: 6518019

DOCUMENT-IDENTIFIER: US 6518019 B2

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

DATE-ISSUED: February 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gerard; Gary F.	Frederick	MD		
Smith; Michael D.	Rockville	MD		
Chatterjee; Deb K.	North Potomac	MD		

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2

## ABSTRACT:

The present invention is generally related to compositions and methods for the reverse transcription of nucleic acid molecules, especially messenger RNA molecules. Specifically, the invention relates to compositions comprising mixtures of polypeptides having reverse transcriptase (RT) activity, and to methods of producing, amplifying or sequencing nucleic acid molecules (particularly cDNA molecules) using these compositions or polypeptides, particularly at temperatures about about 55.degree. C. The invention also relates to nucleic acid molecules produced by these methods, to vectors and host cells comprising these nucleic acid molecules, and to the use of such nucleic acid molecules to produce desired polypeptides. The invention also relates to methods for producing Rous Sarcoma Virus (RSV) and Avian Myeloblastosis Virus (AMV) RTs or other Avian Sarcoma-

Leukosis Virus (ASLV) RTs (.alpha. and/or .beta. subunits thereof), to isolated nucleic acid molecules encoding such RSV RT, AMV RT or other ASLV RT subunits, to vectors and host cells comprising these isolated nucleic acid molecules and to RSV RT, AMV RT and other ASLV RT subunits produced by these methods. The invention further relates to nucleic acid molecules encoding recombinant heterodimeric RT holoenzymes, particularly heterodimeric RSV RTs, AMV RTs or other ASLV RTs (which may be .alpha..beta. RTs, .beta..beta. RTs, or .alpha. RTs), vectors (particularly baculovirus vectors) and host cells (particularly insect and yeast cells) comprising these nucleic acid molecules, methods for producing these heterodimeric RTs and heterodimeric RTs produced by these methods. The invention also relates to kits comprising the compositions, polypeptides, or RSV RTs, AMV RTs or other ASLV RTs of the invention.

116 Claims, 60 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 53

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWD	Draw De
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Terms	Documents
L1 and (nucleic acid or gene or dna or cdna) adj20 encoding adj5 reverse transcriptase	29

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### Search Results - Record(s) 21 through 29 of 29 returned.

☐ 21. Document ID: US 6498025 B1

L11: Entry 21 of 29

File: USPT

Dec 24, 2002

US-PAT-NO: 6498025

DOCUMENT-IDENTIFIER: US 6498025 B1

TITLE: Methods and compositions for cDNA synthesis

DATE-ISSUED: December 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Jeffrey E.	Scripps Ranch	CA	92131	

US-CL-CURRENT: 435/91.51; 435/252.3, 435/320.1, 435/455, 435/471, 435/5, 435/6,  
435/91.2, 435/91.21, 536/23.1, 536/23.5 , 536/24.1, 536/24.33

ABSTRACT:

Methods and compositions for synthesizing cDNA in vivo are disclosed, wherein a synthetic polynucleotide molecule which anneals in vivo to an RNA template molecule is utilized as a primer for reverse transcriptase in vivo.

69 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 22. Document ID: US 6489098 B1

L11: Entry 22 of 29

File: USPT

Dec 3, 2002

US-PAT-NO: 6489098

DOCUMENT-IDENTIFIER: US 6489098 B1

TITLE: Means and methods for monitoring nucleoside reverse transcriptase inhibitor antiretroviral therapy and guiding therapeutic decisions in the treatment of HIV/AIDS

DATE-ISSUED: December 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petropoulos; Christos J.	Half Moon Bay	CA		
Whitcomb; Jeannette	San Mateo	CA		

US-CL-CURRENT: 435/6; 435/91.33, 514/45, 514/49, 514/50, 536/24.3

## ABSTRACT:

This invention relates to antiviral drug susceptibility and resistance tests to be used in identifying effective drug regimens for the treatment of human immunodeficiency virus (HIV) infection and acquired immunodeficiency syndrome (AIDS) and further relates to the means and methods of monitoring the clinical progression of HIV infection and its response to antiretroviral therapy, particularly nucleoside reverse transcriptase inhibitor therapy using phenotypic susceptibility assays or genotypic assays.

13 Claims, 13 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 13

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWC	Draw. De
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☐ 23. Document ID: US 6271004 B1

L11: Entry 23 of 29

File: USPT

Aug 7, 2001

US-PAT-NO: 6271004

DOCUMENT-IDENTIFIER: US 6271004 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method for improved reverse transcription at high temperatures

DATE-ISSUED: August 7, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Warthoe; Peter	Copenhagen			DK

US-CL-CURRENT: 435/91.51; 435/6, 435/91.1, 435/91.2, 435/91.5

## ABSTRACT:

The invention relates to a method for enzyme stabilization. A method for improved reverse transcription at high temperatures is provided, wherein a thermostable heat shock protein (HSPs) stabilizes a reverse transcriptase, as well as reduces the RNase H activity of said reverse transcriptase. The present invention thus relates to a stabilizing agent, that prevents thermal denaturing and enhances thermostability of a reverse transcriptase. The invention further relates to a method of producing a polypeptide complex consisting of a Chaperonin and a Moloney murine leukemia virus (MMVL) reverse transcriptase, characterized by having enhanced thermostability as well as reduced RNase H activity, compared to a (MMVL) reverse transcriptase alone. The invention further relates to a kit for the

preparation of cDNA from mRNA, comprising either both stabilizing agent and reverse transcriptase or the polypeptide complex of the invention.

39 Claims, 10 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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☐ 24. Document ID: US 6100039 A

L11: Entry 24 of 29

File: USPT

Aug 8, 2000

US-PAT-NO: 6100039  
DOCUMENT-IDENTIFIER: US 6100039 A

TITLE: Process for reverse transcriptase activity measurement using fluorescence polarization

DATE-ISSUED: August 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burke; Thomas J.	Madison	WI		
Bolger; Randall E.	Oregon	WI		
Lenoch; Francis J.	Madison	WI		

US-CL-CURRENT: 435/6; 530/350, 530/358, 536/23.1, 536/24.3

ABSTRACT:

Described is a process for detecting reverse transcriptase activity and, thereby, reverse transcriptase inhibitors using fluorescence polarization, comprising, mixing a DNA primer with an RNA template. Then forming an RNA/DNA duplex utilizing the reverse transcriptase and removing the RNA from the RNA/DNA duplex to form single-stranded DNA. Finally, adding a fluorescent-labeled oligonucleotide complementary to the single-stranded DNA for hybridizing to the single-stranded DNA; and, measuring the fluorescence polarization.

19 Claims, 8 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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☐ 25. Document ID: US 6063608 A

L11: Entry 25 of 29

File: USPT

May 16, 2000

US-PAT-NO: 6063608



DOCUMENT-IDENTIFIER: US 6063608 A

**\*\* See image for Certificate of Correction \*\***TITLE: Cloned genes encoding reverse transcriptase lacking RNase H activity

DATE-ISSUED: May 16, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kotewicz; Michael Leslie	Columbia	MD		
Gerard; Gary Floyd	Frederick	MD		

US-CL-CURRENT: 435/194; 435/252.3, 435/252.33, 435/320.1, 435/475, 435/69.1,  
435/91.1, 435/91.2, 435/975, 536/23.2

## ABSTRACT:

The invention relates to a gene which encodes reverse transcriptase having DNA polymerase activity and substantially no RNase H activity. The invention also relates to vectors containing the gene and hosts transformed with the vectors of the invention. The invention also relates to a method of producing reverse transcriptase having DNA polymerase activity and substantially no RNase H activity by expressing the reverse transcriptase genes of the present invention in a host. The invention also relates to a method of producing cDNA from mRNA using the reverse transcriptase of the invention. The invention also relates to a kit for the preparation of cDNA from mRNA comprising the reverse transcriptase of the invention.

196 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 26. Document ID: US 6063604 A

L11: Entry 26 of 29

File: USPT

May 16, 2000

US-PAT-NO: 6063604

DOCUMENT-IDENTIFIER: US 6063604 A

TITLE: Target nucleic acid sequence amplification

DATE-ISSUED: May 16, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wick; James F.	Franklin	WI		
Mueller; Reinhold	Wauwatosa	WI		
Blassak; Michele L.	Wauwatosa	WI		
Wilkosz; Richard K.	New Berlin	WI		

US-CL-CURRENT: 435/91.2; 435/6, 536/23.1, 536/24.3

## ABSTRACT:

A method is provided for the rapid, substantially isostatic, segregation and amplification of the sequence information of a target nucleic acid sequence positioned within a single- or double-stranded polynucleotide. The method is based on the serial generation of double-stranded DNA engineered to contain terminal nicking sites, nicking of those sites, and extensions from those nicks, thereby displacing any existing polynucleotides. Further provided is a method for detecting polynucleotides using the method of the invention. A kit combining the components commonly used in practicing the method of the invention is also provided.

32 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 27. Document ID: US 5849563 A

L11: Entry 27 of 29

File: USPT

Dec 15, 1998

US-PAT-NO: 5849563

DOCUMENT-IDENTIFIER: US 5849563 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Eukaryotes expressing single stranded hybrid molecules

DATE-ISSUED: December 15, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyata; Shohei	Saitama			JP
Ohshima; Atsushi	Highland Park	NJ		
Inouye; Sumiko	Bridgewater	NJ		
Inouye; Masayori	Bridgewater	NJ		

US-CL-CURRENT: 435/325; 435/254.21, 435/320.1, 435/349, 435/354, 435/358, 435/365, 435/366, 435/367, 435/412, 435/415, 435/419, 536/25.2

## ABSTRACT:

Eucaryotic cells like mammal and plant cells transfected with genes, called retrons, which code for stable single-stranded hybrid molecules (msDNA) containing RNA and DNA portions are disclosed. The retrons producing said linked RNA and DNA portions of the msDNAs also contain a gene encoding a reverse transcriptase (RT), which is necessary for the synthesis of the msDNAs. The msDNAs may contain foreign nucleic acid fragments which may be antisense fragments. These msDNA antisense vectors are useful for targeting genes of target proteins.

30 Claims, 20 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. D
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☐ 28. Document ID: US 5436141 A

L11: Entry 28 of 29

File: USPT

Jul 25, 1995

US-PAT-NO: 5436141

DOCUMENT-IDENTIFIER: US 5436141 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method for synthesizing stable single-stranded CDNA in eukaryotes by means of a bacterial retron and products

DATE-ISSUED: July 25, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyata; Shohei	Misato			JP
Ohshima; Atsushi	Highland Park	NJ		
Inouye; Sumiko	Bridgewater	NJ		
Inouye; Masayori	Bridgewater	NJ		

US-CL-CURRENT: 435/91.1; 435/254.2, 435/254.21, 435/320.1, 435/348, 435/358, 435/367, 536/25.2

## ABSTRACT:

A method for producing in vivo stable single-stranded DNAs in eucaryotic cells. The DNAs are multicopy single-stranded DNA (msDNA) structures constituted by a RNA and a DNA portion. The group of genes (retrons) producing said coupled RNA and DNA portions of the msDNAs and the gene encoding reverse transcriptase (RT). The transformed eucaryotes harboring these retrons. The new msDNAs which are encoded by the new retrons. The msDNAs can be used as vectors for antisense DNA and for amplification of inserted genes.

45 Claims, 19 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. D
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☐ 29. Document ID: US 4943531 A

L11: Entry 29 of 29

File: USPT

Jul 24, 1990

US-PAT-NO: 4943531

DOCUMENT-IDENTIFIER: US 4943531 A

TITLE: Expression of enzymatically active reverse transcriptase

DATE-ISSUED: July 24, 1990

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goff; Stephen P.	Tenafly	NJ		
Tanese; Naoko	New York	NY		
Roth; Monica J.	Bronx	NY		

US-CL-CURRENT: 435/194; 435/252.33, 435/320.1

## ABSTRACT:

This invention provides a plasmic which, when introduced into a suitable host cell and grown under appropriate conditions, effects expression of a gene on the plasmid and production of a polypeptide having reverse transcriptase activity. The plasmid is a double-stranded DNA molecule which includes in a 5' to 3' order the following: a DNA sequence which includes an inducible promoter; a DNA sequence which includes an ATG initiation condon; the central portion of the Moloney murine leukemia virus (MuLV) pol gene, said central portion including a DNA sequence which encodes the polypeptide having reverse transcriptase activity; a DNA sequence which contains a gene associated with a selectable or identifiable phenotypic trait which is manifested when the vector is present in the host cell; and a DNA sequence which contains an origin of replication from a bacterial plasmid capable of autonomous replication in the host cell.

The invention also concerns a method for recovering purified enzymatically-active polypeptide having reverse transcriptase activity, the polypeptide being encoded by the plasmid pB6 B15.23, from a suitable host cell e.g., E. coli HB101 producing the polypeptide. Finally, the invention concerns use of the polypeptide to prepare complementary DNA (cDNA).

3 Claims, 5 Drawing figures

Exemplary Claim Number: 3

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw. De
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Terms	Documents
L1 and (nucleic acid or gene or dna or cdna) adj20 encoding adj5 reverse transcriptase	29

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